New Security Tech

Presentation for ISPAB
by Anthony More

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Virtualization and Security

Virtualization has Helped Reinforce the
Patchwork of Security Products in the
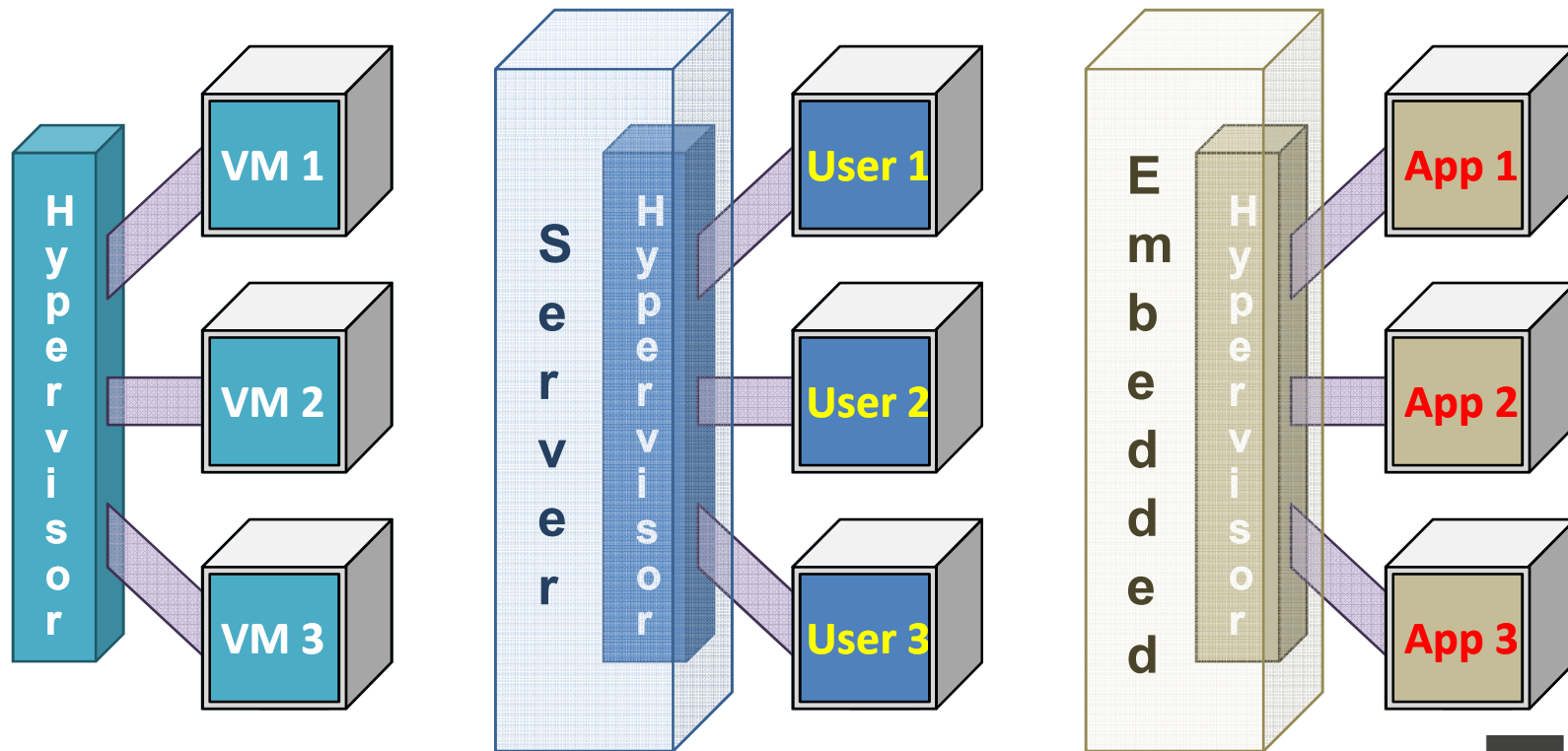Data Center and Embedded Worlds

But

End User Systems Remain the Weakest Link

**Vir2us is Endeavoring to Solve
the End-Point Problem**

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Virtualization Enables Risk Isolation

- **Virtual Machines: Isolated from Each Other**
- **Virtualization on a Server** (remote hosted / thin client / cloud / etc.)
- **Virtualization in Embedded Systems**

Desktop Virtualization: the Next Wave?

- **Functionality not as easily partitioned on User PCs**
- **Virtualized "Sandboxes" Disrupt User for Minimal Benefit**
- **Ideal: Each User File Processed in Isolated Containment**
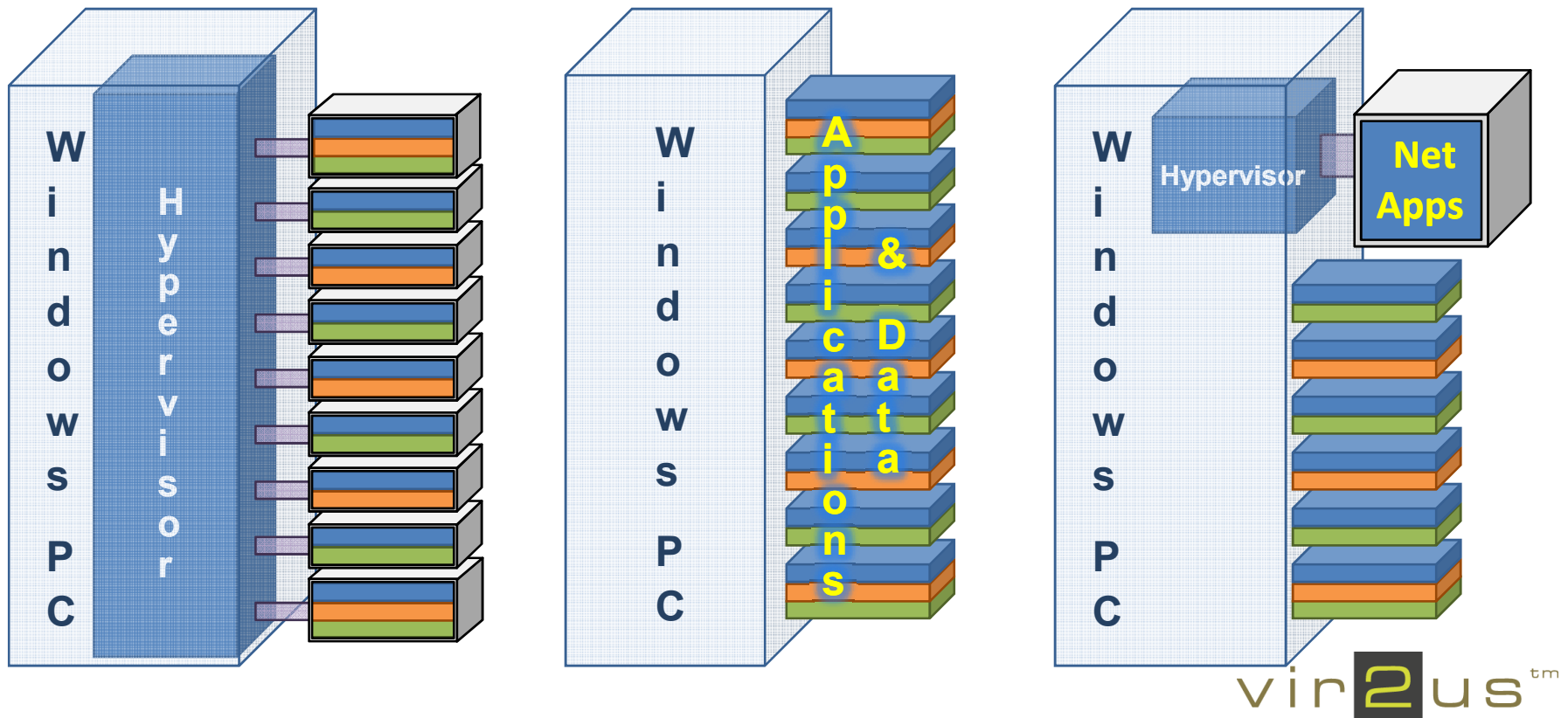
A Discrete, Intelligent PC-Resident TCB

- **Known-Good Intelligence, Outside Processing Flow**

  - **Enforce Access Policies / Permissions for All Interactions**

  - **Preserves a Stable of Pristine Application Code**

  - **System Stability Improved and Performance Anchors Eliminated**

  - **A Seamless Retrofit for Existing Operating Systems**

User Data

PC-TCB

Appl'cn Code

Windows Desktop

Applications & Data

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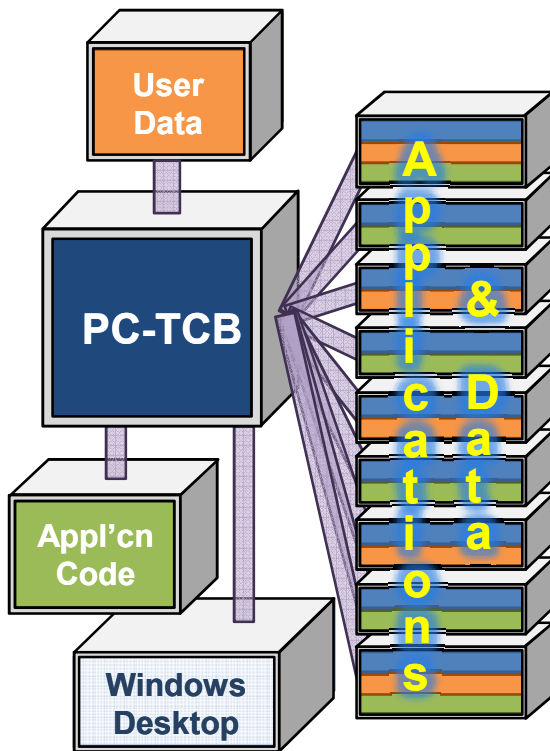
Real-World Desktop Virtualization Challenges

- ***Must*** **Preserve the Normal User Operating Experience**
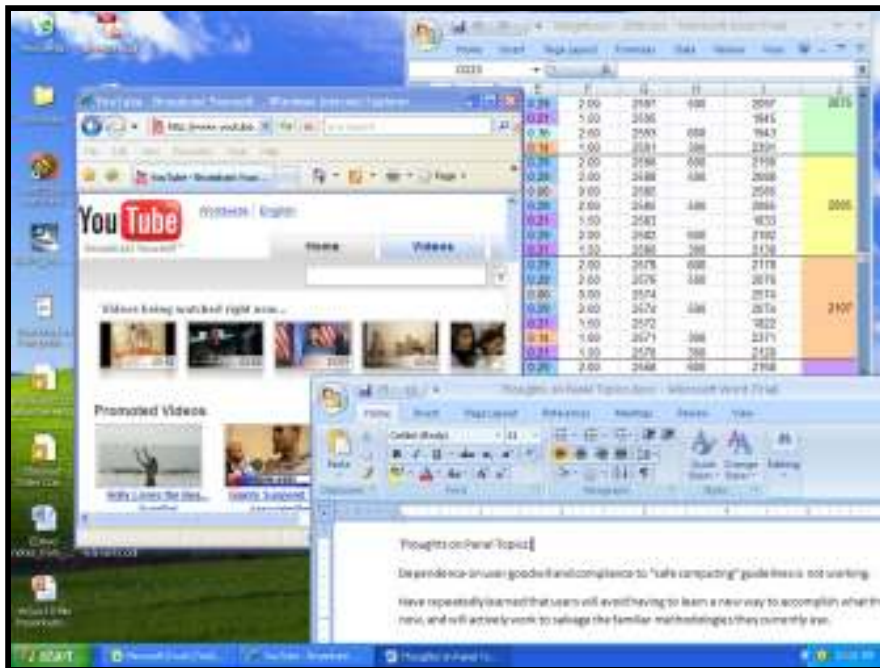
- **Isolation and Containment by Local Virtualization will Only be Effective:**
  - If the User is Unaware of its Existence, and
  -If System Administrators Can Do their Jobs

- **Vir2us has a Significant Portfolio of Patents**

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Inherent Delivery of Security & Reliability

- **Virtualization Helps with Patchwork of Security Solutions**

- **Challenges to Effective Virtualization on a Real-World PC**

- **Vir2us Expands the Notions of Virtualization & Security**
  - Reduces target size to a single file at a time
  - Ensures PC is always pristine and reliable
  - A way to retrofit security onto insecure OS

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Enabling Safe & Sound Computing